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Notice of Allowability

Application No.

10/616,105

Examiner

Zeev Kitov

Applicant(s)

KEMPINSKI, STEVE JOHN

Art Unit

2836

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 04/25/06.
2. ☒ The allowed claim(s) is/are 1 - 36.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

DETAILED ACTION

Examiner acknowledges a submission of the amendment and arguments filed on April 25, 2006. Claims 40 – 43 are deleted. Amendment and arguments have overcome rejections under 103(a).

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in telephone interview with Attorney, Mr. James Stevens and in his proposed amendment received on May 23, 2006.

Please amend Claim 1, last paragraph, as follows: " a low-energy electrical cable connecting said charging circuit with said discharge circuit input, wherein said charging and discharge circuits are remotely located from each other".

Please amend Claim 27, line 14, as follows: " said stored energy causing said igniter to spark, wherein said energy storage device stored energy from said energy charging signal to create a spark at said igniter;

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

An amended independent Claim 1 discloses an aircraft exciter system including a low-energy charging circuit having an input and an output, said charging circuit being operable to utilize operating power received on said input to supply a high voltage, low current charging signal on said output; a high-energy discharge circuit including an input, an igniter, and a number of electrical components, said discharge circuit input being connected to said charging circuit output to receive said charging signal, wherein said electrical components include an energy storage device for storing electrical energy received from said charging signal in an amount sufficient to create a spark across igniter, said electrical components further including a switching device for supplying said stored energy to said igniter; and a low-energy electrical cable connecting said charging circuit output with said discharge circuit input.

The closest reference for the claim is Frus et al. (US 2002/0101188), which discloses following elements of the Claim: a charging circuit (element 9 in Fig.1) having an input and an output, the charging circuit being operable to utilize operating power received on the input to supply a charging signal on the output; a high-energy discharge circuit (elements 40a, 40b, 40c, 40d in Fig. 1) including an input, an igniter (element 50 in Fig. 1) and a number of electrical components, the discharge circuit input being connected to the charging circuit output to receive the charging signal, wherein the electrical components include an energy storage device (capacitors 30 in Fig. 1) for

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storing electrical energy received from the charging signal and a switching device (elements 32a – 32d in Fig. 1) for supplying the stored energy to the igniter. However, it does not disclose the spatial location of the charging and discharging circuits, a low energy charging circuit and a low-energy electrical cable connecting the charging circuit output with the discharge circuit input.

Another reference, Lincroum (US 4,027,198) discloses a high-energy discharge circuit (elements 80, 70, 40c, 50 in Fig. 1) including an input, an igniter (element 60 in Fig. 1) and a number of electrical components, the discharge circuit input being connected to the charging circuit output to receive the charging signal, wherein the electrical components include an energy storage device (capacitors 31, 32 in Fig. 1) for storing electrical energy received from the charging signal and a switching device (elements 21, 22 in Fig. 1) for supplying the stored energy to the igniter. However, it does not disclose the spatial location of the charging and discharging circuits, a low energy charging circuit and a low-energy electrical cable connecting the charging circuit output with the discharge circuit input.

Other independent Claims 18 and 27 includes the recited limitation of the energy storage device being located in the same enclosure with the high-energy discharge circuit.

Allowability resides, at least in part, in the above-described limitations, which has not been disclosed in the Prior Art in a search.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

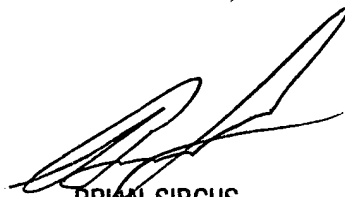
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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zeev Kitov whose telephone number is (571) 272-2052. The examiner can normally be reached on 8:00 – 4:30. If attempts to reach examiner by telephone are unsuccessful, the examiner's supervisor, Brian Sircus can be reached on (571) 272 – 2800, Ext. 36. The fax phone number for organization where this application or proceedings is assigned is (571) 273-8300 for all communications.

Z.K.

5/23/2006

A handwritten signature in black ink, appearing to read 'B. Sircus', with a stylized flourish extending from the end.

**BRIAN SIRCUS
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800**